

**IN THE CLAIMS:**

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
4. (Original) An image pickup system for capturing the image of a subject, comprising:  
an image pickup element that constitutes one image-captured surface by arranging a plurality of scanning lines having a first number of pixels; a drive circuit for outputting, to the image pickup element, a drive signal with a first frequency for sequentially reading an image-captured signal image-captured on the image pickup surface of the image pickup element for every scanning line; a line memory having a memory capacity, which can store one scanning line of image-captured signals read from the image pickup element; a writing signal generating circuit for outputting a writing signal with the first frequency to the line memory and for writing the image-captured signal; a reading signal generating circuit for outputting a reading signal with a second frequency, which is higher than the first frequency, to the line memory and for reading image-captured signals stored in one scanning line; and a video signal processing circuit for performing video signal processing on the image-captured signals read with the second frequency from the line memory.

a second image pickup unit self-containing a second image pickup element that constitutes one imaged screen by arranging a plurality of scanning lines having a second number of pixels, which is larger than the first number of pixels;

a second drive circuit provided in the second image pickup unit for outputting, to the second image pickup element, a second drive signal with a second frequency, which can sequentially read, for every scanning line, image-captured signals for one screen image-captured on the image-captured surface of the second image pickup element;

a second writing signal generating circuit provided in the second image pickup unit for generating a second writing signal with the second frequency, which can sequentially write, for every scanning line, image-captured signals for one screen from the second image pickup element read by the second drive signal;

a camera control unit to which the first image pickup unit or the second image pickup unit are connected freely removably,

a line memory provided in the camera control unit for sequentially storing image-captured signals for one scanning line from a connected image pickup unit based on a writing signal from the image pickup unit connected to the camera control unit;

a reading circuit for reading image-captured signals for one scanning line which are output and stored in the line memory, with the second frequency; and

a video signal processing circuit provided in the camera control unit for performing video-signal processing on the image-captured signals read with the second frequency from the line memory by using the reading circuit.

NEW APPLICATION DOCUMENT INDEX SHEET



A DOCPHOENIX

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